

# SPECIFICATION

受 控

Customer : 威泰克斯通讯 (苏州) 有限公司

Applied To : 4090208

Product Name : SPEAKER



Model Name : KP66145SP1-5306

Drawing No. : KFC5306

Signature of Appronal

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Signature of KEPO

Approved by	Checkde by	Issued by	Date
		刘敬	



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## 1. Scope

This specification is applied to the dynamic speaker which is used all of the electrical acoustic product.

-- compact, rich sound

-- applications: mobile phone, PDA, notebook computer, etc. ..

## 2. General

2.1 Out-Diameter : 66 mm

2.2 Height : 15 mm

2.3 Weight : 32.5±5g g

2.4 Operating Temperature range:

-20 ~+65 °C without loss of function

2.5 Store Temperature range:

-25 ~+75 °C without loss of function

## 3. Electrical and Acoustic Characteristics.

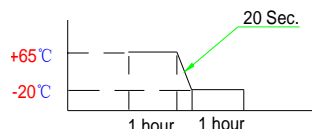
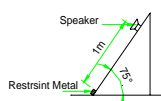
Test condition : 15 ~ 35 °C, 25% ~ 85% RH, 860~1060 mbar

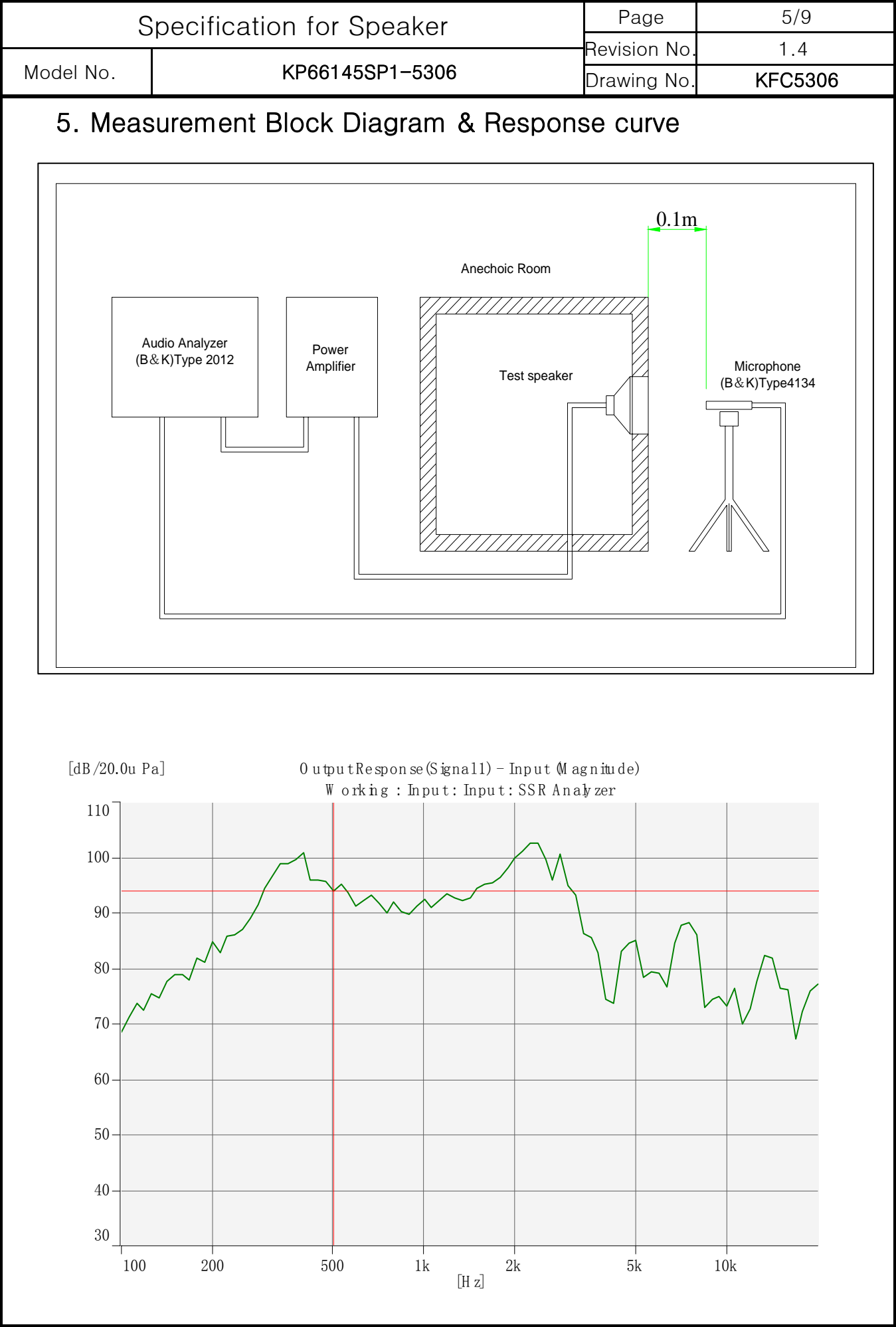
No	Items	Specification
1	Impedance	8 Ω ± 15%
2	Sound Pressure Level	92 dB ± 3dB at0.1W/0.1M (Average at 500,800,1.2,1.5KHz)
3	Resonance Frequency	400 Hz ± 20% at 1.0V
4	Frequency Range	200 ~5.0KHz
5	Input Power	Rated 3.0 W / Max. 3.5 W
6	Distortion	<10% Max. at 1kHz/2.83Vrms
7	Buzz and Rattle	Should not be audible buzzes,rattles when the 4.9V sine wave signal swept at frequency range.
8	Polarity	When supplied plus D.C. voltage to (+) terminal, the cone diaphragm must move to forward.

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4. Reliability Test

After test(1~7item), the speaker S.P.L . difference shall be within  $\pm 3\text{dB}$ , and the appearance not exist any change to be harmful to normal operation (e.g. cracks,rusts,damages and especially distortion).

No	Items	Specification
1	High Temperature Test	After being placed in a chamber with $+65\pm 5\text{ }^{\circ}\text{C}$ for 96 hours and then being placed in natural condition for 1 hour, speaker shall be measured.
2	Low Temperature Test	After being placed in a chamber with $-20\pm 5\text{ }^{\circ}\text{C}$ for 96 hours and then being placed in natural condition for 1 hour, speaker shall be measured.
3	Humidity Test	After being placed in a chamber with $85\pm 5\%\text{R.H.}$ at $+40\pm 5\text{ }^{\circ}\text{C}$ for 96 hours and then being placed in natural condition for 1 hour, speaker shall be measured.
4	Thermal Shock Test	<p>After being placed in a chamber at <math>+65\text{ }^{\circ}\text{C}</math> for 1 hour, then speaker shall be placed in a chamber at <math>-20^{\circ}\text{C}</math> for 1 hour(1 cycle is the below diagram).</p> <p>After10above cycles, speaker shall be measured after being placed in natural condition for 1 hour.</p> 
5	Vibration Test	After being applied vibration of amplitude of 1.5mm with 10 to55Hz band of vibration frequency to each of 3 perpendicular directions for 1 hour, then placed in natural condition for 1 hour, speaker shall be measured.
6	Drop Test	<p>A speaker is dropped from 1m in length on <math>75^{\circ}</math> inclination and a magnetic circuit of speaker is hit to the restraint metal.</p> <p>After the test, magnetic circuit should not drop out and speakr should be met the item 11,12.</p> 
7	Load test	After being applied loading white noise with input power 3W(4.9Vrms.) for 96 hours, then placed in natural condition for 1 hour, speaker shall be measured.
8	Insulation test	When they are measured with DC 100V the insulation resistance between v.c. terminal and frame must be more than 1 MΩ

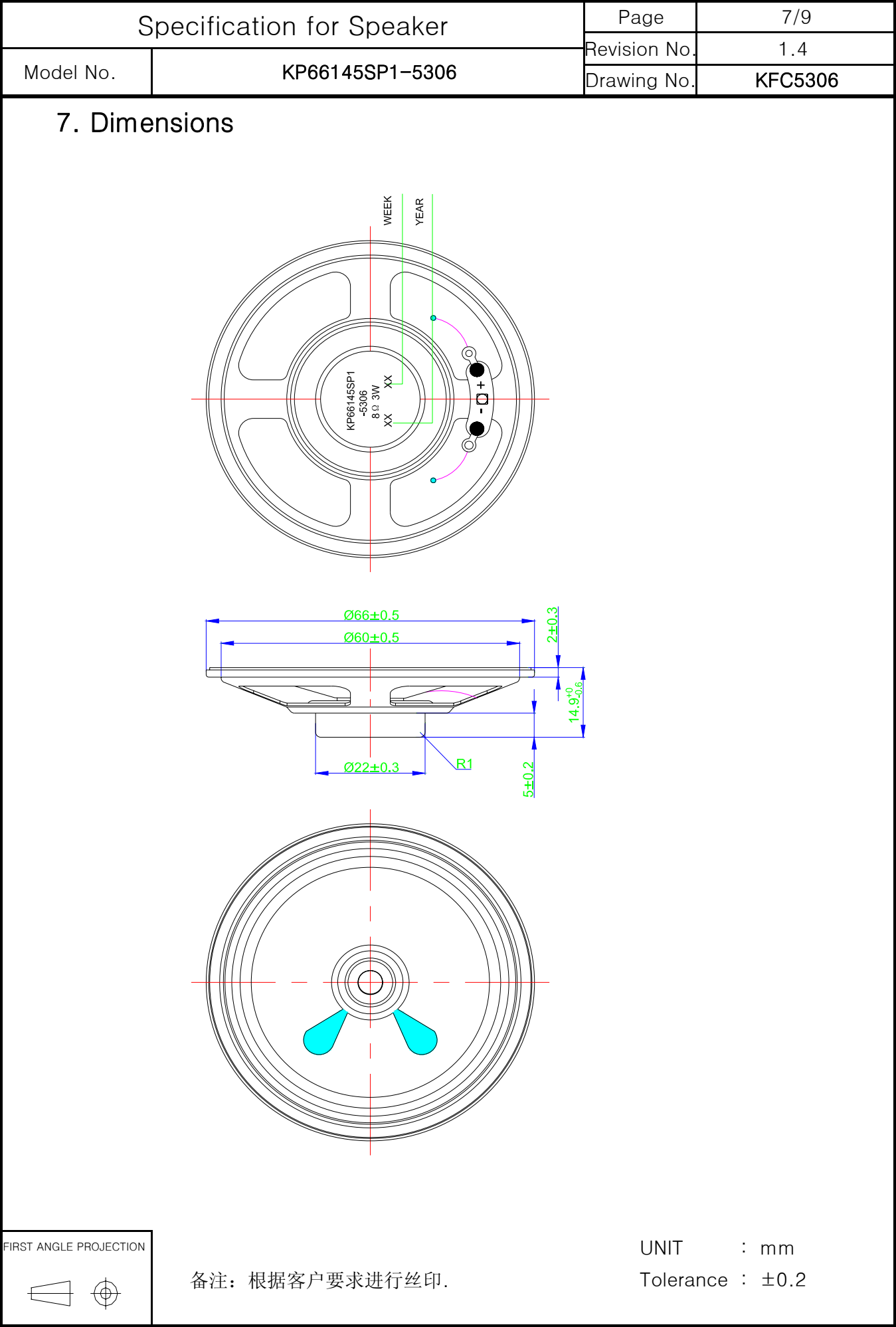


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### 6. Structure

The diagram shows a cross-section of a speaker. At the top, a thin layer (1) is on the outer edge of a larger frame (6). Inside the frame, a paper cone (2) is attached to a central voice coil (3). Above the voice coil is a dust cap (4). The voice coil is mounted on a spider (5) which is connected to the frame. The entire assembly is housed within a top plate (7) which sits on a magnet assembly (8) at the base.

8	Magnet	1	N35	
7	Top Plate	1	SPCC	
6	Frame and Top plate	1	SPCC	
5	Spider	1	silk	
4	Dust Cap	1	Paper	
3	Voice Coil	1	PSV	
2	Paper Cone	1	Paper Cone	
1	Gasket	1	Paper	
No.	Part Name	Q'ty	Material	Remarks



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<p><b>8. Packing</b></p> <p>Each minimum package unit of products shall be in a carton box and it shall be clearly marked with Part Number ,quantity and outgoing inspection number.</p> <p>There shall be no mechanical damage on products during tsansportation and/or in storage.</p>			



